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Parmix E. Garrett
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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

June 30, 2006

WRITER'S DIRECT NUMBER: (202) 772-8657 INTERNET ADDRESS: LDESANTI@SKGF.COM

Art Unit 2154

Mail Stop Petition

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re: U.S. Utility Patent Application

Application No. 09/223,046; Filed: December 30, 1998

For: Method for Providing Extended Precision in SIMD Vector Arithmetic Operations

Inventors: Van Hook et al.

Our Ref: 0056.10US (1778.0110001)

Sir:

Further to the telephone conversation between Ms. Darlene Lyon (of the Office of Patent Publication) and the undersigned on June 22, 2006, in which Ms. Lyon recommended filing a Petition to Withdraw Holding of Abandonment at the Office of Petitions, transmitted herewith for appropriate action are the following documents:

- 1. Petition to Withdraw Holding of Abandonment Under 37 C.F.R. § 1.181(a); and
- 2. Copy of Filing of December 13, 2005, consisting of:
 - a. Postcard date-stamped by the OIPE on December 13, 2005;
 - b. Issue Fee Transmittal (PTOL-85B);
 - c. Amendment Under 37 C.F.R. § 1.312 with one (1) replacement drawing sheet showing Figure 2 and one (1) annotated drawing sheet showing the requested correction to Figure 2;
 - d. Request for Refund; and
 - e. Copies of two (2) previously-submitted Issue Fee Transmittal (PTOL-85B) forms date-stamped by the OIPE to acknowledge receipt on December 5, 2000, and December 10, 2003.

Commissioner for Patents June 30, 2006 Page 2

The above listed documents are filed through EFS-Web.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

LuAnne M. DeSantis

Guamen dedento

Attorney for Applicants Registration No. 57,891

LMY/mhd

548601

Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Confirmation No.:

2296

VAN HOOK et al.

Art Unit:

2154

Appl. No.:

09/223,046

Examiner:

Donaghue, Larry D.

Filed:

December 30, 1998

Atty. Docket:

0056.10US (1778.0110001)

For:

Method for Providing Extended Precision in SIMD Vector

Arithmetic Operations

Petition to Withdraw Holding of Abandonment Under 37 C.F.R. §1.181(a)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Mail Stop Petition

Sir:

In response to the Notice of Abandonment mailed May 9, 2006, Applicants respectfully request that the holding of abandonment in the above-identified application be withdrawn.

The Notice of Abandonment ("Notice") indicates that the application was abandoned for failure to timely pay the required issue fee and publication fee within the statutory period of three months from the mailing date of the Notice. In addition, the Notice indicates that the issue fee and publication fee had not been received. However, Applicants submitted the Issue Fee Transmittal on December 13, 2005, with the understanding that two previously paid issue and publication fees would be applied. In support of this Petition, a copy of the complete issue fee filing of December 13, 2005, is submitted herewith, along with a copy of a return postcard date-stamped by the OIPE of the U.S. Patent and Trademark Office (USPTO) indicating receipt of the documents on December 13, 2005. Specifically, the following documents are submitted herewith:

- 1. A copy of the Issue Fee Transmittal (PTOL-85B), as submitted on December 13, 2005;
- 2. A copy of an Amendment Under 37 C.F.R. § 1.312 with one (1) replacement drawing sheet showing Figure 2 and one (1) annotated drawing sheet showing the requested correction to Figure 2, as submitted on December 13, 2005;
- 3. A copy of a Request for Refund, as submitted on December 13, 2005;
- 4. Copies of the two previously-submitted Issue Fee Transmittal (PTOL-85B) forms date-stamped by the OIPE to acknowledge receipt on December 5, 2000, and December 10, 2003, as submitted on December 13, 2005; and
- 5. A copy of the return postcard, date-stamped by the OIPE to indicate receipt of these documents on December 13, 2005.

The two previously-submitted Issue Fee Transmittal forms were date-stamped by OIPE to acknowledge receipt on December 5, 2000, and December 10, 2003. Each of the previously-submitted Issue Fee Transmittal forms also includes printed acknowledgement of the amount received by the USPTO. The total amount previously paid is well in excess of the amount currently due. Therefore, the Request for Refund was also submitted to request a refund of the overpayment.

The Amendment Under 37 C.F.R. § 1.312 was submitted to correct typographical errors, minor informalities, and reference numbering in the specification, as well as to add an inadvertently omitted reference number in Figure 2. Applicants respectfully request that the accompanying Amendment and drawing sheets be forwarded to the Examiner for review and approval.

Based on the above remarks, Applicants respectfully request that the Notice of Abandonment be withdrawn and that the patent application be passed to issuance.

In accordance with 37 C.F.R. § 1.181(a) and MPEP § 711.03(c).I, no fee is believed to be due. However, the U.S. Patent and Trademark Office is hereby authorized to charge any fee not provided for herewith to our Deposit Account No. 19-0036.

Prompt and favorable consideration of this Petition is requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

LuAnne M. DeSantis

Attorney for Applicants

Gerlined De Sentis

Registration No. 57,891

Date: (/30/06

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

546893_2.DOC

Due Date: December 14, 2005

Art Unit: 2154

Confirmation No.: 2296

Examiner: Donaghue, Larry D.

0056.10US (1778.0110001) Docket:

Atty: DJF/LMY

Applicants: Van Hook et al.

Application No.: 09/223,046

Filed: December 30, 1998

For: Method for Providing Extended Precision

in SIMD Vector Arithmetic Operations

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. SKGF Cover Letter;

2. Issue Fee Transmittal (PTOL-85B);

3. Amendment Under 37 C.F.R. § 1.312 with one (1) replacement drawing sheet showing Figure 2 and one (1) annotated drawing sheet showing the requested correction to Figure 2 in red ink;

4. Request for Refund;

5. Copies of two previously-submitted Issue Fee Transmittal (PTOL-85B) forms date-stamped by OIPE to acknowledge receipt on December 5, 2000, and December 10, 2003; and

6. One (1) return postcard.



Mail Stop Issue Fee

Please Date Stamp and Return to Our Courier

Please Date Stamp and Return to Our Courier



Robert Greene Sterne Edward J. Kessier Jorge A. Goldstein David K.S. Conwell Robert W. Esmond Tacy-Gene G. Durtin Mitchel R. Ksy Robert E. Solohi Este, K. Steffe Mitchel Q. Lee Steven R. Luckel John M. Covert Linda E. Alcom Bobert C. Millonig Donald J. Featherstone Timothy J. Shea, it Mitchel W. Messinger

Pebiok E. Garrett, Jeffrey T. Helvey Heldil L. Krates Eldora L. Elbson Thomas C. Raba Albert L. Ferro Donald R. Banowith Peter A. Jackman Jeffrey S. Wesser Kendrick P. Patterson Woncert L. Caputan Brian J. Del Bunno Virgil Lee Beaston Theodore A. Whood Elizabeth J. Haanes Joseph S. Dostooff Famir R. Cottingham Ree Lyon P. Guest Daniel A. Lifein

Michael D. Specht Andrea J. Kanage Tray L. Michael J. Kanage Tray C. Michael J. Carlson Ann E. Sumnerfield Aric W. Ledford Helene C. Carlson Opniha M. Bouches Timothy A. Doyle Geby L. Longsworth Lori A. Gordon Micole D. Dretar Ted J. Ebersola Laura A. Vogel Michael J. Mancuso Byan S. Wade Aaron L. Schwartz

Shannon A. Carroll* Wesley W. Jones* Matthew E. Kelley* Michelle K. Holoubek* Matsha A. Rose*

Karen R. Mantowicz Nancy J. Lath Matthew J. Dowel Kathan Yujian Pei Quach Bryan L. Stetton Robert A. Schwarzman Teresa A. Colella Victoria S. Ruffuerford Simon J. Elliot Julia A. Heider Scott M. Woodhouse Christopher J. Walsh Liliana Di Nola-Baron Peter A. Socarras Jeffrey Mills

<u>Of Coursel</u> Kenneth C. Bass III Marvin C. Guthrie *Admitted only in Maryiz *Admitted only in Vinglisi

December 13, 2005

WRITER'S DIRECT NUMBER: (202) 772-8629 INTERNET ADDRESS: DOM@SEGF.COM

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450



Mail Stop Issue Fee Art Unit 2154

Re:

Allowed U.S. Utility Patent Application

Application No. 09/223,046; Filed: December 30, 1998

For: Method for Providing Extended Precision in SIMD Vector Arithmetic

Operations

Inventors:

Van Hook et al.

Our Ref:

0056.10US (1778.0110001)

Sir:

In response to the Notice of Allowance and Fee(s) Due dated September 14, 2005, the following documents are forwarded for appropriate action by the U.S. Patent and Trademark Office (USPTO):

- 1. Issue Fee Transmittal (PTOL-85B);
- 2. Amendment Under 37 C.F.R. § 1.312 with one (1) replacement drawing sheet showing Figure 2 and one (1) annotated drawing sheet showing the requested correction to Figure 2 in red ink;
- 3. Request for Refund;
- 4. Copies of two previously-submitted Issue Fee Transmittal (PTOL-85B) forms date-stamped by OIPE to acknowledge receipt on December 5, 2000, and December 10, 2003; and
- 5. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier.

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents December 13, 2005 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or to credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Donald J. Featherstone Attorney for Applicants Registration No. 33,876

DJF/LMY:krd Enclosures

474425_1.DOC



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandra 22313-1450

(571) 273-2885 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, solvence orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

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١	09/223,046	12/30/1998			. VAN HOOK		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Confirmation No.:

2296

Van Hook et al.

Art Unit:

2154

Appl. No.:

09/223,046

Examiner:

Donaghue, Larry D.

Filed:

December 30, 1998

Atty. Docket:

0056.10US (1778.0110001)

For:

Method for Providing Extended Precision in SIMD Vector

Arithmetic Operations

Amendment Under 37 C.F.R. § 1.312

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450



Sir:

Submitted herein is an Amendment Under 37 C.F.R. § 1.312. As payment of the issue fee is filed herewith, Applicants respectfully submit that filing under 37 C.F.R. § 1.312 is proper. (M.P.E.P. § 714.16.)

It is not believed that extensions of time are required. However, if an extension of time not provided for herewith is necessary to prevent abandonment of this application, then such extension of time is hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefore are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments to the Specification

Please amend the specification as indicated.



Please amend the paragraph beginning at page 7, line 22, as follows:

Figure 2 illustrates an exemplary computer system 212 comprised of a system bus 200 for communicating information, one or more central processors 201 coupled with the bus 200 for processing information and instructions, a computer readable volatile memory unit 202 (e.g., random access memory, static RAM, dynamic RAM, etc.) coupled with the bus 200 for storing information and instructions for the central processor(s) 201, a computer readable non-volatile memory unit 203 (e.g., read only memory, programmable ROM, flash memory, EPROM, EEPROM, etc.) coupled with the bus 200 for storing static information and instructions for the processor(s).

Please amend the paragraph beginning at page 9, line 11, as follows:

The vector register file is comprised of 32 64-bit general purpose registers 306 through 310. The general purpose registers 306 through 310 are visible to the programmer and can be used to store intermediate results. The preferred embodiment of the present invention uses the floating point registers (FGR) (FPR) of a floating point unit (FPU) as its vector registers.

Please amend the paragraph beginning at page 13, line 26, as follows:



Integer vector operations that write to the FPRs clamp the values being written to the target's representable range. That is, the elements are saturated for overflows and under flows underflows. For overflows, the values are clamped to the largest representable value. For underflows, the values are clamped to the smallest representable value.

Please amend the paragraph beginning at page 17, line 1, as follows:

Figure 8 illustrates an exemplary ADDA.fmt arithmetic operation between elements of operand registers vs 800 and vt 802. Each of the registers 800, 802, and 804 contains 4 16-bit elements. Each letter in the elements (i.e., A, B, C, D, E, F, G, H, and I) stands for a binary number. FFFF is [[an]] a hexadecimal representation of 16-bit binary number, 1111 1111 1111. The vs register 800 holds elements FFFF, A, B, and C. The selected elements of vt registers are FFFF, D, E, and F. The ADDA.fmt arithmetic instruction directs the VU to add corresponding elements: FFFF+FFFF (=1FFFD), A+D, B+E, and C+F. Each of these sums are then added to the corresponding existing elements (i.e., FFFF, G, H, and I) in the accumulator 804: FFFF+1FFFD, A+D+G, B+E+H, and C+F+I. The addition of the hexadecimal numbers, 1FFFD and FFFF, produces 2FFFC, an overflow condition for a general purpose 64-bit register. The accumulator's representable range is 48 bits in accordance with the present invention. Since this is more than enough bits to represent the number, the entire number 2FFFC is written into the accumulator. As a result, no bits have been lost in the addition and accumulation process.

Please amend the paragraph beginning at page 17, line 19, as follows:



Load Vector Add (ADDL.fmt). According to the ADDL.fmt instruction, the corresponding elements in vectors vt and vs are added and then stored into corresponding elements in the accumulator. Any overflows or underflows in the elements wrap around the accumulator's representable range and then are written into the accumulator 706 806.

Please amend the paragraph beginning at page 17, line 25, as follows:

Figure 9 illustrates an exemplary ADDL fmt arithmetic operation between elements of operand registers vs 900 and vt 902. Each of the registers 900, 902, and 904 contains 4 16-bit elements. Each letter in the elements (i.e., A, B, C, D, E, and F) stands for a binary number. FFFF is [[an]] a hexadecimal representation of 16-bit binary number, 1111 1111 1111. The vs register 900 holds elements FFFF, A, B, and C. The selected elements of vt registers are FFFF, D, E, and F. The ADDA fmt arithmetic instruction instructs the VU to add corresponding elements: FFFF+FFFF, A+D, B+E, and C+F. The addition of hexadecimal numbers, FFFF and FFFF, produces 1FFFD, a technical overflow condition for a general purpose 64-bit register. The present invention wraps the number 1FFFD around the accumulator's representable range, which is 48 bits. Since this is more than enough bits to represent the number, the entire number 1FFFD is written into the accumulator. As a result, no bits have been lost in the addition process.



- 5 -

Van Hook *et al.* Appl. No. 09/223,046

Please amend the paragraph beginning at page 22, line 1, as follows:

A RACL/RACM/RACH instruction followed by WACL/WACH are used to save and restore the accumulator. This save/restore save/restore function is format independent, either format can be used to save or restore accumulator values generated by either QH or OB operations. Data conversion need not occur. The mapping between element bits of the OB format accumulator and bits of the same accumulator interpreted in QH format is implementation specific, but consistent for each implementation.

.6. COPY

Van Hook et al. Appl. No. 09/223,046

Amendments to the Drawings

FIG. 2 is sought to be amended to add a reference number corresponding to that used in the specification as originally filed. Specifically, reference number 200 was inadvertently omitted from FIG. 2 as filed and is sought to be added. The requested change to FIG. 2 introduces no new matter. A replacement drawing sheet incorporating the requested correction to FIG. 2 is submitted herewith, along with an annotated drawing sheet showing the requested correction in red ink.

Identification of the accompanying annotated and replacement drawing sheets is provided in accordance with 37 C.F.R. §§ 1.84(c) and 1.121(d). Acknowledgement of the receipt, approval, and entry of the replacement drawing sheet into this application is respectfully requested.

Van Hook et al. Appl. No. 09/223,046

Amendments to the Claims

Applicants submit no amendments to the claims.



Van Hook et al. Appl. No. 09/223,046

Remarks



This Amendment corrects formal matters without changing the scope of the claims. The specification is sought to be amended to correct typographical errors, minor informalities, and reference numbering in order to correspond to the drawings as originally filed. FIG. 2 is sought to be amended to add a reference number corresponding to that used in the specification as originally filed. These changes are believed to introduce no new matter. Accordingly, Applicants respectfully request that this Amendment be considered and entered.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Donald J. Featherstone Attorney for Applicants Registration No. 33,876

Date:

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

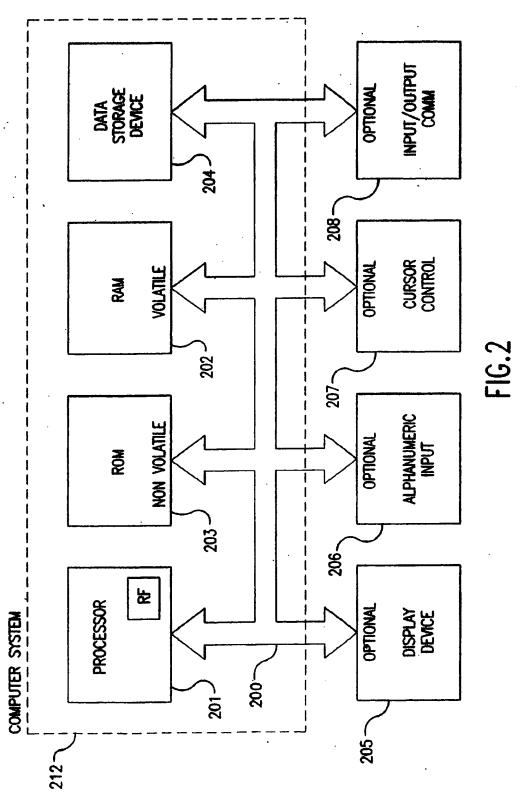
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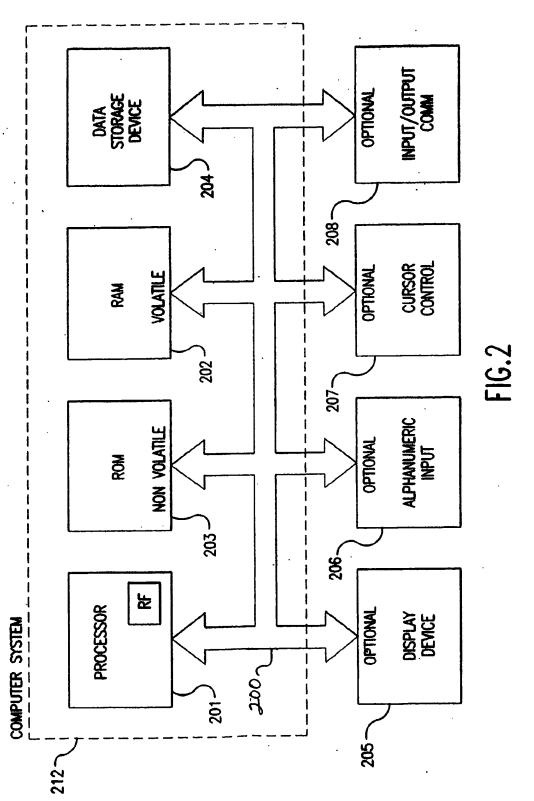
.ppl. No. 09/223,046; Filed: December 30, 1998
Dkt No. 0056.10US (1778.0110001); Group Unit: 2154
Inventors: Van Hook et al., Tel. No.: 202-371-2600
For: Method for Providing Extended Precision in SIMD
Vector Arithmetic Operations





Appl. No. 09/223,046; Filed: December 30, 1998 Dkt No. 0056.10US (1778.0110001); Group Unit: 2154 Inventors: Van Hook et al.; Tel. No.: 202-371-2600 For: Method for Providing Extended Precision in SIMD Vector Arithmetic Operations





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Confirmation No.:

2296

Van Hook et al.

Art Unit:

2154

Appl. No.:

09/223,046

Examiner:

Donaghue, Larry D.

Filed:

December 30, 1998

Atty. Docket:

0056.10US (1778.0110001)

For:

Method for Providing Extended Precision in SIMD Vector Arithmetic Operations

COPY

Request for Refund

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

It is hereby respectfully requested that the previous issue fee payments filed in the above-captioned patent application on December 5, 2000, and December 10, 2003, be reapplied to cover the issue fee and publication fee in this application, as well as the fee for ten (10) advance order patent copies. Furthermore, it is respectfully requested that any remaining prior payment submitted on the dates noted above be credited to our Deposit Account No. 19-0036.

It is asserted that the following payments were filed on December 5, 2000, and December 10, 2003:

\$1240.00	Issue Fee payment (filed December 5, 2000);
\$ 30.00	Payment for ten (10) advance patent copies (filed December 5, 2000);
\$1330.00	Issue Fee payment (filed December 10, 2003);
\$ 300.00	Publication Fee payment (filed December 10, 2003); and
\$ 30.00	Payment for ten (10) advance patent copies (filed December 10, 2003).
\$2930.00	Total payments filed December 5, 2000, and December 10, 2003



Credit is believed to be due for the following reasons. On December 5, 2000, and December 10, 2005, Applicants submitted a total of \$2930.00 to the U.S. Patent and Trademark Office (USPTO) to cover multiple payments of the issue fee and the fee for ten (10) advance order patent copies, as well as the publication fee, for the above-captioned application. On September 14, 2005, the USPTO mailed a Notice of Allowance and Fee(s) Due, in response to which payment of the issue fee is required by December 14, 2005. Accordingly, it is respectfully requested that \$1730.00 of the total \$2930.00 previously paid on December 5, 2000, and December 10, 2003, be re-applied in the present application as follows:

\$1400.00 Issue Fee;

\$ 300.00 Publication Fee; and

\$ 30.00 Payment for advance order of ten (10) patent copies.

\$1730.00 Total

Applicants wish to note that the Notice of Allowance and Fee(s) Due mailed September 14, 2005, lists the issue and publication fees due as \$1400 and \$0, respectively. However, Applicants request herein that the previously-submitted payments be re-applied to cover both the issue fee and the publication fee for this application, as well as the \$30.00 fee required for ten (10) advance order patent copies, the total of which is \$1730.00 as shown above. Applicants request a refund of the remaining \$1200.00 previously paid on December 5, 2000, and December 10, 2003, as a credit to our Deposit Account No. 19-0036.

In support of the above request, copies of two previously-submitted Issue Fee

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Van Hook et al. Appl. No. 09/223,046

and December 10, 2003, and showing payments received by the USPTO are provided herewith. Applicants wish to note that these documents were obtained using the Image File Wrapper feature of the USPTO's PAIR system.

If the individual reviewing this request believes, for any reason, that personal communication with the undersigned may expedite the processing of the requested refund, then he or she is invited to telephone the undersigned at the number provided below.

The U.S. Patent and Trademark Office is hereby authorized to debit any underpayment, including the issue fee, publication fee, and/or fee for advance order patent copies, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Donald J. Featherstone Attorney for Applicants Registration No. 33,876

Date

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TITLE OF INVENTION: METHOD FOR PROVIDING EXTENDED PRECISION IN SIMD VECTOR ARITHMETIC OPERATIONS



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